

REMARKS

No new matter is believed to be added to the application by this Amendment.

Status of the Claims

Claims 1-4 and 6-26 are pending in the application.

Claim 1 has been amended to incorporate the subject matter of canceled claim 5.

Rejection Under 35 U.S.C. 102(e) Over Kashiwazaki

Claims 1-4, 6-16, 18-22, 25 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Kashiwazaki (U.S. Patent No. 5,922,401). Applicants traverse.

Independent claim 1 has been amended to incorporate the subject matter of canceled claim 5, such that "a protective layer formed in a portion of each cell area; and wherein a portion of said ink-jet color filter formed in each cell area is formed on said protective layer." Kashiwazaki fails to disclose this limitation, as is admitted by the Examiner. Thus, claim 1 and its dependent claims 2-4 and 6-9 are free of this rejection over Kashiwazaki.

Independent claim 10 includes the limitation "barrier lines formed in a first direction over said first substrate, adjacent barrier lines defining a column area." Kashiwazaki fails to

disclose or suggest this limitation. Independent claims 25 and 26 contain similar limitations pertaining to barrier lines.

Kashiwazaki thus fails to disclose all of the limitations in any of independent claims 1, 10, 25 or 26. Claims dependent upon independent claims 1, 10, 25 and 26 are patentable for at least the above reasons alone.

Accordingly, this rejection over Kashiwazaki is overcome and withdrawal thereof is respectfully requested.

**Rejection Under 35 U.S.C. 103(a) Over Kashiwazaki**

Claims 5, 17 and 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kashiwazaki. Applicants traverse.

The Examiner admits to the multiple failures of Kashiwazaki to disclose the claimed embodiments of the invention. On page 5, lines 19-20 of the Office Action, the Examiner states "As to claims 5-17, Kashiwazaki et al. does not disclose forming the color filter over an insulating layer." At page 6, lines 4-5 of the Office Action, the Examiner states "As to claims 23 and 24, Kashiwazaki et al. does not disclose patterning the light-shielding layer, and then using it as a mask to form the source and drain electrodes." The Examiner then asserts that these limitations would be well known and obvious to one having ordinary skill.

The Examiner, however, is basing his obviousness rejection on a single prior art reference. MPEP 2143 states that "the prior art

reference (or references when combined) must teach or suggest all of the claim limitations." In addition, if a reference needs to be modified to achieve the claimed invention "there must be a showing of a suggestion or motivation to modify the teachings of that reference of the claimed invention in order to support the obviousness conclusion." Sibia Neurosciences Inc., v. Cadus Pharmaceutical Corp., 55 USPQ2d 1927 (Fed. Cir. 2000).

Although the Examiner has made blanket statements inferring that invention would be obvious to one of ordinary skill, the Examiner fails to make an adequate showing of a suggestion or motivation to modify the Kashiwazaki patent. Thus, Kashiwazaki fails to allege *prima facie* obviousness over the invention. Accordingly, this rejection is overcome and withdrawal thereof is respectfully requested.

#### Rejection Under 35 U.S.C. 102(e) Over Izumi

Claims 1, 2, 7-11, 13-15, 19-22, 25 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Izumi (U.S. Patent No. 6,417,898. Applicants traverse.

Claim 1 has been amended to incorporate the subject matter of canceled claim 5. Claim 5 was free of this rejection over Izumi. Thus, claim 1 and its dependent claims are free of this rejection over Izumi.

Izumi pertains to a liquid crystal display including color filters that can be produced by ink-jetting. The Examiner alleges that Izumi discloses conventional elements of a liquid crystal display such as an insulating protective film which the Examiner interprets as being a barrier rib. Izumi, however, discusses that the insulating protective film is produced in a matrix form. Izumi at column 5, lines 5-7 states "The insulating protective film 11 is produced in a matrix form by SiN, acrylic resin, etc."

Izumi, that is, fails to teach or suggest barrier ribs formed in one direction over the substrate (See claim 10 of the invention) or having stripe-shaped barrier ribs parallel to a data line (See claim 7 of the invention). Claims 25 and 26 of the invention contain similar teachings pertaining to barrier lines.

Izumi, as a result, fails to anticipate the invention as claimed in independent claims 1, 10, 25 and 26. Claims dependent upon these independent claims are patentable for at least the above reasons alone. Accordingly, this rejection is overcome and withdrawal thereof is respectfully requested.

**References Cited but not Utilized by the Examiner**

The references cited but not utilized by the Examiner shows the status of the conventional art which the invention supercedes. Accordingly, no further remarks are necessary.

**Conclusion**

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Robert E. Goozner, Ph.D. (Reg. No. 42,593) at the telephone number of the undersigned below, to conduct an interview in an effort to expedite prosecution in connection with the present application.

Attached hereto is a marked-up version of the changes made to the application by this Amendment.

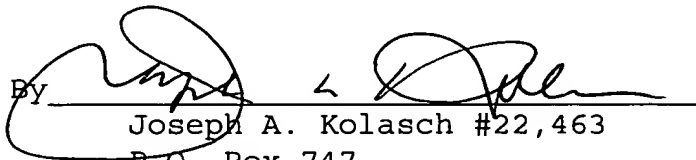
Pursuant to 37 C.F.R. §§ 1.17 and 1.136(a), Applicant(s) respectfully petition(s) for a one (1) month extension of time for filing a reply in connection with the present application, and the required fee of \$110.00 is attached hereto.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

JAK/REG:jls  
2658-0183P

By   
Joseph A. Kolasch #22,463  
P.O. Box 747  
Falls Church, VA 22040-0747  
(703) 205-8000

Attachment: Version with Markings to Show Changes Made

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Claim 5 has been canceled.

The claims have been amended as follows:

1. (Amended) A liquid crystal display device, comprising:

a first substrate;

a plurality of gate lines formed on said first substrate;

a plurality of data lines, electrically insulated from said plurality of gate [line] lines, formed on said first substrate such that said plurality of data lines intersect with said plurality of gate lines to define cell areas;

a pixel electrode formed in each of said cell areas;

a transistor associated with each pixel electrode, said transistor having a gate, source and drain, said drain connected to said pixel electrode, said source connected to one of said plurality of data lines, and said gate connected to one of said plurality of gate lines;

barrier ribs formed on said source and drain of each transistor; [and]

an ink-jet color filter formed in each cell area between said barrier ribs;

a protective layer formed in a portion of each cell area; and

wherein

a portion of said ink-jet color filter formed in each cell  
area is formed on said protective layer.